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| USPT,JPAB,EPAB,DWPI | 5341350 .pn. | 3 | <u>L4</u> |
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Jan 9, 1992

DERWENT-ACC-NO: 1992-017137

DERWENT-WEEK: 199203

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TITLE: Jukebox system with remote sound data storage - uses central data-bank to store digitised data for transmission over ISDN or telephone lines

INVENTOR: ARMIN, F; FRANK, A ; NIEDERLEIN, H

PATENT-ASSIGNEE:

ASSIGNEE

CODE

NSM AG

NSMAN

PRIORITY-DATA: 1990DE-4021707 (July 7, 1990)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|-------------------|----------|-------|------------|
| DE 4021707 A | January 9, 1992 | N/A | 000 | N/A |
| DE 59103716 G | January 12, 1995 | N/A | 000 | H04H001/02 |
| EP 538319 A1 | April 28, 1993 | G | 009 | H04H001/02 |
| EP 538319 B1 | November 30, 1994 | G | 009 | H04H001/02 |
| JP 06505808 W | June 30, 1994 | N/A | 005 | G10K015/04 |
| US 5341350 A | August 23, 1994 | N/A | 006 | G11B017/22 |
| WO 9201342 A | January 23, 1992 | N/A | 000 | N/A |

DESIGNATED-STATES: AT BE CH DE DK ES FR GB GR IT LI LU NL SE AT
BE CH DE DK ES FR GB GR IT LI LU NL SE JP US AT BE CH DE DK ES FR
GB GR IT LU NL SE

CITED-DOCUMENTS:3.Jnl.Ref; US 4826829 ; US 4889867 ; EP 122765 ;
EP 134544 ; GB 2131654 ; US 4568930 ; US 4764920 ; WO 9015493

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|-------------|-----------------|----------------|------------|
| DE 4021707A | July 7, 1990 | 1990DE-4021707 | N/A |
| DE59103716G | July 4, 1991 | 1991DE-0503716 | N/A |
| DE59103716G | July 4, 1991 | 1991EP-0912596 | N/A |
| DE59103716G | July 4, 1991 | 1991WO-DE00560 | N/A |
| DE59103716G | | EP 538319 | Based on |
| DE59103716G | | WO 9201342 | Based on |
| EP 538319A1 | July 4, 1991 | 1991EP-0912596 | N/A |
| EP 538319A1 | July 4, 1991 | 1991WO-DE00560 | N/A |
| EP 538319A1 | | WO 9201342 | Based on |
| EP 538319B1 | July 4, 1991 | 1991EP-0912596 | N/A |
| EP 538319B1 | July 4, 1991 | 1991WO-DE00560 | N/A |
| EP 538319B1 | | WO 9201342 | Based on |
| JP06505808W | July 4, 1991 | 1991JP-0511600 | N/A |
| JP06505808W | July 4, 1991 | 1991WO-DE00560 | N/A |
| JP06505808W | | WO 9201342 | Based on |
| US 5341350A | July 4, 1991 | 1991WO-DE00560 | N/A |
| US 5341350A | January 7, 1993 | 1993US-0961920 | N/A |
| US 5341350A | | WO 9201342 | Based on |

INT-CL (IPC): G07F 17/28; G07F 17/32; G10K 15/04; G11B 17/22;
G11B 19/08; G11B 31/02; H04H 1/02; H04H 1/12

ABSTRACTED-PUB-NO: DE 4021707A
BASIC-ABSTRACT:

The proposed juke-box terminal unit includes a screen for selection display (24), selection keys (28), adjustment controls (42) and loudspeaker connections (30a,30b). The unit may store frequently-selected items internally, to minimise the use of the data link (16) to the central data bank. Usage information can be stored at the terminal and/or at the data bank. USE/ADVANTAGE - Cost-effective where central databank is shared by number of terminals. Units have fewer moving parts and require less maintenance. Gives customers access to extensive library, in familiar juke-box form. May be used for music, videos and/or other sound entertainment. May be installed in public places or added to domestic equipment.

ABSTRACTED-PUB-NO:

EP 538319B
EQUIVALENT-ABSTRACTS:

Coin-operated juke box, including a coin unit, a display (24), an input keyboard (28) and at least one loudspeaker (32), the juke box (4) being connected to a central music store (10) via a remote data transmission line suitable for transmitting audio information, and said juke box having digital-analog converters and amplifiers for audio information received via the remote data transmission line (16), characterised in that an intermediate store is provided for audio information received via the remote

data transmission line, a store for frequently played pieces of music is provided, a central computer is provided, which stores and/or processes user data for the individual juke boxes, the juke box which is connected to the central computer having a code control unit which gives access to the central computer and the appropriate user data, and the juke box has a computer, more especially a microcomputer, which stores and processes user data.

US 5341350A

An intermediate memory is provided for the audio information picked up over the data telecommunications line. A memory is provided for frequently played musical selections and a central computer is provided which processes user data for the individual jukeboxes. The jukebox connected with the central computer includes an operator code unit which permits access to the central computer and the corresponding user data, and

the jukebox includes a computer which processes user data.

The data telecommunications line comprises an ISDN line.

and the central music store comprises a data bank for musical selections.

USE/ADVANTAGE - The jukebox does not have a playback unit but rather it is connected to a central music store from which it calls up the selected music, thereby reducing amount of apparatus required for individual jukebox.

CHOSEN-DRAWING: Dwg.2/2 Dwg.1/2

TITLE-TERMS: SYSTEM REMOTE SOUND DATA STORAGE CENTRAL DATA BANK
STORAGE DIGITAL DATA TRANSMISSION ISDN TELEPHONE LINE

DERWENT-CLASS: P86 T05 W01 W04

EPI-CODES: T05-H05; W01-C05B5A; W01-C05B7; W04-K05; W04-X03A1;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1992-012970